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1988 Rose-Hulman Institute of Technology : One-Hundred and Tenth Commencement

Rose-Hulman

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**One-Hundred and Tenth
Commencement**

of

**Rose-Hulman Institute of
Technology**



Commencement Program

Prelude.....	<i>Alleluia</i> from Cantata 142 and <i>Contrapunctus I</i> from <i>The Art of the Fugue</i>
Academic Procession	Jess R. Lucas, B.S., M.S., Ph.D. <i>Marshal</i>
Processional.....	<i>Prince of Denmark March</i> and <i>Trumpet Tune</i>
National Anthem ...	Daniel T. English, Tim W. Harrison, Mark E. Leonard and J. Andrew Lowe
Invocation	Todd S. Kost <i>President, Student Government Association</i>
Greeting from the Alumni.....	Charles B. Huppert, '65, B.S., J.D. <i>President, Alumni Association</i>
Response from the Senior Class	Christopher S. Mandeville <i>President, Senior Class</i>
Introduction of Commencement Speaker	Jack Ragle <i>Chairman, Board of Managers</i>
Commencement Address	Donald J. Atwood <i>Vice Chairman, General Motors Corporation and President of GM Hughes Electronics Corporation</i>
Interlude	<i>Canzona per sonare No. 4</i>
Awarding of Heminway Medal	Herman A. Moench, B.S., M.S.E., D. Eng. <i>Senior Vice President</i>
John T. Royse Award	Jess R. Lucas <i>Vice President for Student Affairs</i>
Herman A. Moench Distinguished Senior Commendation	Robert Steinhauser, B.S., M.S. <i>Herman A. Moench Distinguished Professor</i>
Awarding of Honorary Degrees.....	Samuel F. Hulbert, B.S., Ph.D. <i>President, Rose-Hulman Institute of Technology</i>
Donald J. Atwood (Doctor of Engineering) Introduced by Buck F. Brown, S.B., M.S., Ph.D.	
Donald J. Duck (Doctor of Engineering) Introduced by James L. McKinney, B.S., M.S., Ph.D.	
Frank P. Popoff (Doctor of Engineering) Introduced by Noel E. Moore, B.S., S.M., Ph.D.	
Harmon L. Shaw (Doctor of Engineering) Introduced by Robert M. Bunch, B.S., Ph.D.	
Edwin H.C. Tao (Doctor of Engineering) Introduced by Thad D. Smith, B.A., Ph.D.	
Conferring of Degrees	Samuel F. Hulbert <i>President, Rose-Hulman Institute of Technology</i>
Candidates for the Master of Science and Bachelor of Science degrees will be presented by Gary J. Sherman, B.S., M.A., Ph.D., <i>Chairman Pro Tempore of the Faculty.</i>	
Dean's Outstanding Teacher Award.....	James R. Eifert, B.S., M.S., Ph.D. <i>Vice President for Academic Affairs</i>
President's Outstanding Service Award	Samuel F. Hulbert
School Song	Daniel T. English, Tim W. Harrison, Mark E. Leonard and J. Andrew Lowe
Benediction	Brent T. Repp <i>President, Blue Key</i>
Recessional	<i>Nun Danket</i>
Postlude	<i>Toccata in C Major</i> Organ Music by Alfred R. Schmidt, B.S., M.S. <i>Professor of Mathematics</i> Brass Choir by Rose Students: James R. Chinni, Thomas S. Doerr, Deron E. Meranda, Frederick L. Queary, Royce A. Wilkinson, Dennis Worthington. Debra Goecker, Director (Allen Digital Organ through courtesy of Samuel Music of Effingham, Illinois)

SCHOLARSHIP HONORS

Students graduating with a scholarship index of 3.90 or higher will be graduated *Summa Cum Laude*; those with a scholarship index between 3.60 and 3.90 will be graduated *Magna Cum Laude* and those with a scholarship index between 3.30 and 3.60 will be graduated *Cum Laude*. These honors are recognized by the display of gold Honor Cords at the Commencement ceremonies and in appropriate fashion on the diplomas.

* <i>Cum Laude</i>	G Technical Translators Program—German
** <i>Magna Cum Laude</i>	R Technical Translators Program—Russian
*** <i>Summa Cum Laude</i>	A U.S. Army Commission
†† Two Degrees	AF U.S. Air Force Commission
	C Consulting Engineering Program
	M Management Studies Certificate
	Master Thesis indicated in <i>Italics</i>

THE ACADEMIC PROCESSION

In today's academic procession, the gown and hood indicate the degree held by the wearer. The hood is lined with the official color or colors of the college or university conferring the degree. Graduates of certain institutions wear gowns in the color of the university, although black is the basic color of the majority of academic gowns. The doctor's gown is faced down the front with velvet panels and has three velvet crossbars on each sleeve. The velvet may be black or may be the color which represents the field in which the degree was conferred.

RHIT Bachelor's Degree Attire

Rose-Hulman Institute of Technology Bachelor's degree holders or candidates wear a black gown and a black mortarboard with a black tassel.

RHIT Master's Degree Attire

Master's degree hoods for Rose-Hulman Institute of Technology are black, lined with rose satin and white satin chevron and edged in golden yellow velvet. With the gown and hood is worn a black mortarboard with black tassel.

Honorary Degrees

Doctor of Engineering

DONALD J. ATWOOD

Atwood is vice chairman of the board of General Motors Corp., Detroit, Mich. He has responsibility for GM Hughes Electronics (GMHE), Electronic Data Systems (EDS), the Defense Operations Group, and GM's technical staffs. He also serves as president of GMHE.

At the time of his election to the GM Board of Directors in 1984, Atwood was vice chairman and group executive in charge of the Worldwide Truck and Bus Group.

He has also served as vice president of the GM Electrical Components Group and is currently a member of the corporation's ten policy groups.

DONALD J. DUCK

As president and chief executive officer of Harza Engineering, Chicago, Ill., Duck oversees all business operations for the international consulting engineering firm. The employee-owned company specializes in water resources development with work extending to 28 countries worldwide.

A 1959 Rose-Hulman graduate, Duck has been in charge of technical and administrative duties for several dam, hydro-electric, tunnel and reservoir projects including the Guri Hydroelectrical Project in Venezuela, one of the largest projects of its kind in the world.

Prior to joining Harza, Duck served as Deputy Assistant Commissioner Engineering and Research with the U.S. Bureau of Reclamation.

He is a native of Terre Haute.

FRANK P. POPOFF

Popoff is president and chief executive officer of Dow Chemical Corp., Midland, Mich. He joined Dow Chemical in 1959 and assumed his present duties last year.

Popoff, a native of Terre Haute, was named executive vice president and a member of the company's executive committee with management responsibility for the international areas of the company in 1985. He was also responsible for the global operations and manufacturing function, and global employee relations.

Four years ago, he was named vice president of the company after serving as executive vice president of Dow Europe. Popoff was elected to the Dow Board of Directors in 1982.

HARMON L. SHAW

Shaw, a 1946 graduate of Rose-Hulman, recently retired as chairman of the board and chief executive officer of Hi-Port Industries, a company he founded in 1974.

He is currently chairman of the executive committee and director of the company which is located in Houston, Texas.

Hi-Port Industries is one of the country's largest contract packagers. It handles blending, packaging and distribution of consumer products for the personal care and oil industry.

Prior to forming the company in 1974, Shaw served in executive engineering and management positions with several manufacturing firms. He has 32 patents to his credit as either the inventor or co-inventor of new products or product improvements.

EDWIN H.C. TAO

Tao has had a distinguished career in the engineering profession and as a proponent of engineering education in Hong Kong.

He serves as managing director, Forgen Investment and Engineering Co., Ltd., director of Rankine and Hill Ltd., Hong Kong, and director of a diesel equipment distributor company.

Tao has also been a leader in the development of engineering education in East Asia. He currently serves on the engineering academic advisory committee and on the council of the Chinese University of Hong Kong. He is chairman of the board of trustees of New Asia College and is involved in the development of accreditation standards for engineering programs at universities and colleges in China.

A 1947 graduate of Rose-Hulman, Tao is president of the Hong Kong Institution of Engineers and has been honored by numerous European and American engineering societies.

Rose-Hulman Institute of Technology

Candidates for Degrees

Bachelor of Science

November 19, 1987

MECHANICAL ENGINEERING

Aaron Lee Murray..... Robinson, Illinois

February 25, 1988

CHEMISTRY

Timothy Wayne Voll..... Terre Haute

ELECTRICAL ENGINEERING

Duane Edward Robertson..... Newburgh

* Kenneth David Roth Northampton, Pennsylvania

ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

** George John Woyansky..... Westlake, Ohio

MATHEMATICS

* Jeffrey Michael Dobranski, Jr..... Cincinnati, Ohio

William Bradley Martin Newton, Illinois

May 21, 1988

CHEMICAL ENGINEERING

** David Christopher Becketl Plainfield

Dale Jay Blocher Columbus

Duane Edward Braunecker Tell City

Michael Shawn Cardwell Louisville, Kentucky

Andrew William Carter Munster

G * James Edward Companik Griffith

* Mark Logan Crowder Terre Haute

Rodney Lee Dick..... Elkhart

†† ** Darryl Wayne Dixon..... Cincinnati, Ohio

A Michael William Dunn Canandaigua, New York

* Donald Ray Foley II Paris, Illinois

** Eric Carl Gjervik Otis Orchards, Washington

Edward Sean Griggs Terre Haute

Steven Michael Hanshaw Cedar Rapids, Iowa

** Brian Adam Jackey Henryville

* Scott Edward Johnson..... Columbus

Todd Shannon Kost Sellersburg

A Kenneth Robert Miller, Jr. Frankfort, Kentucky

A Donald Leon Moster, Jr. Brownsburg

Frank Paul Piskolich Butte, Montana

R John Kenneth Puckett..... Anderson

*** Angelo Mark Randazzo Omaha, Nebraska

** Gregory Joseph Schmidt Jasper

** Charles Thomas Sego Terre Haute

Kenneth Michael Strum Metamora, Illinois
 Allen Dale Stucker Waldron
 Jeffrey Alan Thomas Terre Haute
 ** Robert Joel Tiller Terre Haute
 Carl L. Troike, Jr. North Judson
 Douglas Eric Underwood North Manchester
 Cary Glenn Weldy Elkhart

CHEMISTRY

†† ** Darryl Wayne Dixon Cincinnati, Ohio
 Timothy Wayne Harrison Brazil
 R * Mitchell Joe Robertson Newburgh

CIVIL ENGINEERING

A John Allen Collett Terre Haute
 Robert Wesly Fuller Villa Park, Illinois
 A Gregory Aloysius Gondeck Michigan City
 C Bryan Keith Heim Jasper
 G ** Thomas Robert Kowalski El Puerto de Santa Maria, Spain
 ** William E. Mast Kokomo
 ** Lantz McElroy Mt. Vernon
 ** Scott Alan McGuire Indianapolis
 Kevin Alan Mendenhall Logansport
 A Brock Ridgway Terre Haute
 John Eric Rose Terre Haute
 A Steven Ralph Schwaiger Fort Wayne
 Michael Thomas Stercula Dayton, Ohio

COMPUTER SCIENCE

Darren Lee Anderson Vancouver, Washington
 Andre Ringgold Brousseau IV Danville, Kentucky
 Lynn David Crockett Fort Wayne
 Thomas Stephen Doerr Cambridge, Ohio
 James Allen Drees DeMotte
 AF Mark Matthew Meysenburg Lincoln, Nebraska
 *** Stephen Edward Moak Cincinnati, Ohio
 Mark Edward Monnin Dayton, Ohio
 Anthony LaMont Phillips McPherson, Kansas
 Ralph William Posey Hicksville, Ohio
 Clifton Wylie Shillcutt Crosett, Arkansas
 David William Thomas Carlinville, Illinois
 Paul Dean Walker II Wanatah
 A Douglas James Waterfield Sandusky, Ohio

COMPUTER SCIENCE AND ELECTRICAL ENGINEERING

Brett Adams Norton Katy, Texas
 G ** James Michael Roberts Hagerstown

ECONOMICS

Christopher Scott Mandeville LaPorte

ELECTRICAL ENGINEERING

A R Alex Konstantin Alexandrov Indianapolis
 ** Steven Kent Anderson Indianapolis
 Richard Louis Baldwin Cloverdale
 * Bradley Alan Barnes Danville, Illinois
 * Steven Douglas Bensen Zionsville

	Donald Hall Boughton, Jr.	Raleigh, North Carolina
	Bart Kenneth Bretsch	Belleville, Illinois
	John Harold Broxon II	Pleasant Lake
A	Mark Eugene Burtner	Kennett Square, Pennsylvania
*	Christopher John Cook	Elkhart
*	Nicholas Joseph Cutaia	Manchester, Missouri
	Anthony Brian Decker	Batesville
**	Brian Lee Deitrich	Palmyra, Pennsylvania
	John Franklin Didat, Jr.	Floyds Knobs
	Mark Lawrence Dolan	Frankfort, Illinois
	Jack LeNoir Duncan	Evansville
	Bryan Jay Eckhoff	Plymouth
	Douglas Rex Emmons	French Lick
	Paul Albert Ferrari	Apalachin, New York
	David Ryan Roley	Martinsville
	Peter Anthony Fortman	Larwill
	Timothy Francis Gazda	Whiting
	Roger Wayne Grass	Mattoon, Illinois
R ***	Jeffrey Lee Gresham	Munster
*	Richard Jude Hall	Fort Branch
	Jeffrey William Harms	Deshler, Nebraska
	Jack Jerome Hawkins	Danville
*	Jade Francis Hubertz	West Lafayette
	Frederick Earl James	Kalamazoo, Michigan
	Jeffrey Allen Janik	Plainfield
	Michael Joseph Komisarick	Merrillville
	Michael Patrick Konerman	Erlanger, Kentucky
*	James Matthew Kulaga	New Albany
	Daniel John Lemons	Kettering, Ohio
G *	John Edwin Lentz	Indianapolis
*	Thomas Lee Levendoski	Michigan City
***	John Andrew Lowe	Knoxville, Tennessee
**	Robert Paul Mayer	Greencastle
	Rimantas Tadas Meckauskas	Lansing, Illinois
R *	Thomas Vernon Meixner	Owatonna, Minnesota
	Anthony Joseph Miller	Evansville
	Wade Adam Miller	Shipshewana
	Bradley Michael Mills	Huntington
AF	John Arthur Ortiz	Tecumseh, Michigan
	Robert Nikolaj Parker	McCordsville
A **	Timothy Mark Phelps	Indianapolis
	Anthony John Platz	Mattoon, Illinois
	Steven James Powers	Easton, Maryland
R	Steven Robert Press	Cumberland, Maryland
G **	Harold Van-de-vere Putman	Pittsburgh, Pennsylvania
	Andrew Michael Raih	Marion
	Jon Charles Reick	Crest Hill, Illinois
**	Brent Thomas Repp	Palestine, Illinois
***	Christopher David Ruppel	Lawrenceville, Illinois
A	Dennis Carl Schoetmer	Oldenburg
AF	Robert Alan Spitznagel	Clarksville
*	Kelly Martin Stephens	Tell City
	Michael Allen Stoneburner	Indianapolis

	* Matthew James Strabley	LaCrescent, Minnesota
	* Mark Edward Tebbe	Greensburg
	Timothy Jay Terry	Mitchell
	Stephen Eric Turpin	Greensboro
	Del John Ventruella	Fort Wayne
AF	** Kervin Joseph Waterman	Newport, Washington
	** Todd Alan Wey	Greencastle
	* Michael Andrew Williams	Shelbyville

ELECTRICAL ENGINEERING AND ECONOMICS

**	Kerry Wayne Sharp	Danville
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ELECTRICAL ENGINEERING AND MATHEMATICS

***	Craig Alan Ledgerwood	Loogootee
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MATHEMATICS

***	John Landis Dowell	Terre Haute
	David Neil Hoffman	Martinsville
	Matthew Xavier Hunter	Princeton
	Adrian Charles Lawhorn	Indianapolis
***	Mark Eugene Leonard	Gridley, Illinois
A	Jon E. Molander	Conway, South Carolina
	Joseph Matthew Witulski	South Bend

MATHEMATICS AND COMPUTER SCIENCE

**	Scott Allen Krutsch	Medina, Ohio
*	Ronald Kenneth Park, Jr.	Somerdale, New Jersey
**	Andrew Visscher	Old Bridge, New Jersey
**	John James Wohn	Genoa, Ohio

MECHANICAL ENGINEERING

	Douglas Brian Ankney	Brazil
	Steven Lawrence Backer	Jasper
	Brian Linn Backus	Chardon, Ohio
A **	Richard Lee Baker	Clinton
G ***	Randy Scott Bay	LaCrosse, Wisconsin
	Jeffrey Michael Belot	Fort Wayne
	Robert Brack Bengé	Brownsburg
	Christopher Joseph Billman	Edinburgh
	Kenneth Michael Brennan	Michigan City
A	Cary Lee Brown	Terre Haute
G **	James Gerard Buechler	Jasper
**	John Gerard Buechler	Jasper
**	Mark Eric Case	Andrews
	Michael David Castor	Noblesville
	Kim Kai Chan	Singapore, Singapore
**	James Richard Chinni	Oregon, Ohio
	Philip Eugene Chorney	Hoopeston, Illinois
	Robert David Clauss	Vincennes
	Neal Alan Clevenger	Cincinnati, Ohio
	Michael Sean Connaughton	Hamilton, Ohio
	James Lee Crumley II	Speedway
	Michael Allen Cuiksa	Rosedale
	Thomas Everett Curtiss	Anderson

	Phuc Ba Dao	Terre Haute
	Kirk Curtis Dawson	Avon
	Frank Albert Didelot	Floyds Knobs
**	Chester Joseph Dominik, Jr.	Hammond
C	David Richard Emerson	Greentown
	Mark Walter Forsythe	Dyer
	Anthony M. Gausman	Batesville
	Kurt Michael Gobreski	Lafayette
	John Daniel Goebel	Abilene, Texas
	Kevin Paul Goy	Terre Haute
*	William Patrick Grace	South Holland, Illinois
A	Voris Gerald Gresham III	Mayfield, Kentucky
	Jay Bradley Groom	Wales, Massachusetts
	Todd Henry Hoevener	Elizabethtown
	Shawn Lee Huffman	Louisville, Kentucky
	Joseph Henry Irwin, Jr.	West Terre Haute
*	Keith A. Kabrick	Oakland City
	Dennis Jeffery Kelley	St. Louis, Michigan
	Michael Patrick King	Columbus
	David Kenneth Land	Columbus
	Kelley Douglas Land	Salem, Illinois
*	Wayne Alan Lawson	Brunswick, Ohio
	Michael Eugene Leakey	Fort Wayne
G ***	Joel David Limmer	Chicago, Illinois
	Brian Patrick Major	South Bend
***	Jeffrey Lee Martin	Martinsville
	Kevin Lee Martin	Anderson
*	Michael Andrew McFall	Anderson
	Kevin Wayne McNelly	Kentland
*	Steven Curtis Mendoza	Portage
G	Jared Alan Mitchener	Valparaiso
*	Robert Timothy Myers	Terre Haute
**	Ronald Alan Naliborski	Terre Haute
	Steven Michael O'Keefe	Woodburn
	Jeffrey Christopher Osborn	Fortville
	Joseph Vincent Pawlowski	Highland
	Douglas Michael Perry	Selma
**	William Owen Reid	Chesterton
R	Kenneth Carl Richley	Parma, Ohio
	Matthew Curtis Robbins	Brookville
*	Kenneth Wayne Roberts	Vevay
	Thomas James Rudolph	Terre Haute
*	Michael Joseph Ruth	Indianapolis
	Alan Hugh Schoonveld	Brook
**	Young Sik Shin	Indianapolis
	Craig Alan Siegelin	Brazil
G	Steven Walter Sill	Arlington, Virginia
**	Terry Wayne Smith	English
**	Douglas Allen Srail	Parma, Ohio
*	Casey John Strange	Washington
	David Michael Suder	Cincinnati, Ohio
*	Thomas John Suelflow	Oshkosh, Wisconsin
*	Christopher A. Szaz	Cincinnati, Ohio
	Scott Patrick Thrasher	South Bend
	Robert Glendon Tickel	Monroe, Ohio
	Phillip Andrew Titzer	Washington
A	Brian Paul Tretter	Merrillville
A	David Lloyd Troyer	Clearwater, Florida

	David Alan Urbanek	Lorain, Ohio
	Mark Alan Walker	Rosedale
	William Hamilton Whitaker	Terre Haute
	Daniel Vernon Whitlock	San Rafael, California
*	Peter Jack Wierzchon	Morton Grove, Illinois
	Nathan Hart Wright	Jacksonville, Alabama
*	Mark Alan Yoder	Goshen
AF	Timothy Philip Zimmer	Neoga, Illinois

PHYSICS

A *	Michael Ronald Lee Coon	Copperas Cove, Texas
	Christopher L. Eichelberger	Terre Haute
	Daniel Theodore English	Kempton, Illinois
A *	Thomas Edward Forbes	Marion, Ohio
A	Andrew Scott Laughlin	Evansville
R ***	Mark Thomas Myers	Davenport, Iowa
	Robert Allen Shotwell	Hammond
**	James Kent Wallace	Columbia, Missouri

Master of Science

May 21, 1988

APPLIED OPTICS

- Jon Steven Edmondson Fort Wayne
"The Development of an Improved ESPI System"
- Dirk Alan Hall New Richmond, Wisconsin
*"Characterization of Radiation Losses
from Formed 90° Bends in Optical Fibers"*
- Chi-Shiung Lee
*"Displacement Measurement by Holographic Interferometry
and Comparison with Speckle Photography"*

CHEMICAL ENGINEERING

- William J. Lorenz, Jr. Pittsburgh, Pennsylvania
*"Steady-State Optimization Of A Distillation Column
Separating Iso-Propyl and Iso-Butyl Alcohols"*
- Dennis Wayne Worthington Amanda, Ohio
*"Linear VS. Branched Polyacrylamide in Conditioning
of Sewage Sludge for Filtration"*
- Qi Zhou Beijing, Peoples Republic of China
*"Kinetic Study of the Polymerization of Acrylamide
Using 4,4'-Azobis-Cyanopentanoic Acid as an Initiator in Aqueous Solution"*

ELECTRICAL ENGINEERING

- Xiaodi Liu Beijing, Peoples Republic of China
"Computer Protection for Power Transformers"
- Steven K. Moore Terre Haute
"A Parallel Processing Real-Time FFT Spectrum Analyzer"
- Jamshid Nazari Mianeh, Iran

MECHANICAL ENGINEERING

- Bao-Ding Chen Beijing, Peoples Republic of China
*"Computation of Air Flow Rate and Pressure Distribution in a Cooling Tower
With Anisotropic Fills Using the Finite Element"*
- Hauke Jungnitz Stuttgart, West Germany
*"Design and Development of a Compliant Wrist Sensor
for Edge Following with Robot Manipulators"*
- Rakesh Khurana Karnataka, India
"A Simplified Finite Element Method For Acoustic Analysis"
- Cheow Fook Leong Selangor, Malaysia
"Dynamic Analysis of a Cab Using ANSYS"
- Timothy Allen Meckstroth Plymouth
*"The Use of the Normal Mode Methods
As An Improvement in Calculating Room Reverberation Times"*

Summer Completion

COMPUTER SCIENCE

Daniel Juan Ferris Poland, Ohio
Mark Douglas Taylor Greencastle

ELECTRICAL ENGINEERING

George Michael Duregger Brazil
Kirk Allen Klentz Bellbrook, Ohio
David Lynn Mannies Danville
AF Kevin Patrick Mowan Fort Wayne
G Daniel Clarence Olliges Louisville, Kentucky

MATHEMATICS

AF Alan Francis Rebholz Peoria, Illinois

MECHANICAL ENGINEERING

David Ross Baechle Louisville, Kentucky
David Michael Cummings Plainfield
John William Stewart Beech Grove

November Completion

ELECTRICAL ENGINEERING

Nicholas E. Guntz Indianapolis
Thomas Russell Hough Fort Wayne
Srinivas Kurella Sarma Indianapolis
Eric Neil Swift West Chester, Ohio

MECHANICAL ENGINEERING

Tri Minh Ly Viet Nam
William Lawrence Parrish Indianapolis
Darin Bradley Ritter Paris, Illinois
Michael David Switzer Oakley, Illinois

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Alexander J. Vogl	Palatine, Illinois
Fred W. Goetsch, Jr. (Alumni Representative)	Indianapolis
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